

The EM501 is a modular field communications support system for emergency management and first responder organizations using P25 and other Digital Trunk Radios and Repeaters.

Designed to provide unmatched performance and flexibility, the EM501 allows stand-alone operation of communications and other electronic equipment in remote or urban environments. It is a lightweight, solar powered, all-weather equipment platform that can be transported easily using All-Terrain Vehicles or mounted in light trucks.

Two equipment bays provide 7U standard 19 inch rack mounting rails per the EIA 310-D specification. The larger bay allows fixed or transportable DVRS units to be installed or stowed for transport allowing for immediate deployment.



The EM501 consists of three individual main components:

- Solar Panel Mount Assembly
- Main Equipment Enclosure
- ATV Off-Road Trailer

The Solar Panel Mount Assembly protects and carries many popular sizes of commercially available Photo-Voltaic panels. It accommodates 2 panels and can be set-up or stowed in under 30 seconds. Solar power output is typically 500 Watts.

The Main Equipment Enclosure is a fork-lift ready, weather-tight enclosure with five internal compartments, three of which have external access doors:

- The internal vented battery compartment holds four, GC2 size sealed batteries.
- The internal electronics compartment can accommodate battery charge controllers and AC power inverters up to 4000 Watts.
- The system control bay has two external access doors and houses all power system controls and circuit breakers. It also provides AC and DC power outlets and an external AC charging inlet.
- Two equipment bays allow for 19 inch rack mounted or unmounted equipment. Power outlets for NEMA AC and Vehicle Type DC are provided for easy charging of radio, phones and computers using standard commercial chargers.



The Main Equipment Enclosure also provides two telescoping antenna masts that can extend to over ten feet.

The ATV Off-Road Trailer is a rugged vehicle option for towing the EM501 package. It provides extendable outrigger jacks for added stability and a detachable hitch. The hitch is available in either a 2 inch ball receiver or Pintle ring. The trailer has a 2000 pound carrying capacity and comes with heavy duty 25 inch ATV tires.

This trailer is not for highway use, but the EM501 can be easily mounted on any highway approved, commercially available trailer.



EM501 Product General Specifications

Note: The EM501 Series is designed to accommodate system components from a wide variety of manufacturers. The following general specifications are typical and are subject to change at any time.

Mobile Unit Dimensions - Inches [Ft.] (mm)	Length = 107.67 In. [8.97 Ft.] (2735 mm)
	Width = 68.0 In. [5.67 Ft.] (1727 mm)
	Height = 51.0 In. [4.25 Ft.] (1295 mm)
Module Dimensions - Inches [Ft.] (mm)	Length = 69.85 In. [5.82 Ft.] (1774 mm)
	Width = 46.1 In. [3.84 Ft.] (1171 mm)
	Height = 29.85 In. [2.49 Ft.] (758 mm)
Mobile Gross Weight	~ 650 Lbs. (295 Kg)
Module Gross Weight	~ 495 Lbs (225 Kg)
Max Continuous power @ 25 °C	4000 Watts @ 120 VAC or 120/240 VAC 60 Hz (L-L)
Surge Output Power (5 Seconds)	5800 Watts @ 120 VAC or 120/240 VAC 60 Hz (L-L)
Battery Capacity	220 A/Hr. @ 24 VDC, 440 A/Hr. @ 12 VDC Typ.
Battery Type	GC-2: Flooded or AGM (Sealed)
Solar Panel Capacity	500 Watts Typical
Solar Panel Mount	Tilt-lock Butterfly Hinge, Trail Hardened
Battery Charger	45 Amp MPPT 4 Stage, 98% Efficient
Total System Efficiency	90% +



The EM501 can be equipped with an auto-start generator using propane, gasoline or diesel fuel. This will require a larger trailer unit not shown.

For more information, contact your nearest dealer.